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 Town of Gramercy/Gramercy Wastewater Treatment Facility
 LA0046876
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Design Capacity: 0.75 MGD (From e-mail from environmental consultant)

NOTE: The previous permit had a design capacity of 0.85 MGD. The renewal permit application had .680 MGD. A phone call to the environmental consultant resulted in an e-mail stating the design capacity as .75 MGD.

Type of Flow Measurement which the facility is currently using:

Totalizing-Continuous recording

V. RECEIVING WATERS:

The discharge is into the Mississippi River in segment 070301 of the Mississippi River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 070301 of the Mississippi River Basin are as indicated in the table below^{1/}:

| Overall Degree of Support for Segment 070301 | Degree of Support of Each Use | | | | | | |
|--|-------------------------------|------------------------------|--------------------------------|------------------------------------|-----------------------|------------------------|-------------|
| | Primary Contact Recreation | Secondary Contact Recreation | Propagation of Fish & Wildlife | Outstanding Natural Resource Water | Drinking Water Supply | Shell fish Propagation | Agriculture |
| Full | Full | Full | Full | N/A | Full | N/A | N/A |

^{1/}The designated uses and degree of support for Segment 070301 of the Mississippi River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Volume 5, Part B, Water Quality Inventory respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 070301 of the Mississippi River Basin, is listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish & Wildlife Service (FWS) as habitat for the Pallid sturgeon, which is listed federally as a threatened/endangered species. This strategy was submitted with a letter dated October 24, 2007 from Boggs (FWS) to Brown (LDEQ). A copy of the draft permit has been submitted to the FWS for review.

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VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the fact sheet. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

The public notice is published in a local paper of general circulation and the Office of Environmental Services Public Notice Mailing List.

For additional information contact:

Darlene Bernard
Permits Division
Department of Environmental Quality
Office of Environmental Services
PO Box 4313
Baton Rouge, LA 70821-4313

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IX. PROPOSED PERMIT LIMITS:

Final Effluent Limits:

OUTFALL 001

Final effluent limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

| Effluent Characteristic | Monthly Avg. (lbs./day) | Monthly Avg. | Weekly Avg. | Basis |
|-------------------------|-------------------------|--------------|-------------|---|
| BOD ₅ | 188 | 30 mg/l | 45 mg/l | Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size discharging to the Mississippi River. |
| TSS | 563 | 90 mg/l | 135 mg/l | Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size discharging to the Mississippi River. |

Other Effluent Limitations:

1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.a, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgment in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

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3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X.

PREVIOUS PERMITS:

LPDES Permit No LA0046876: Issued: November 15, 2000
 Effective: December 1, 2000
 Expired: November 30, 2005

During the period beginning the effective date of the permit and lasting until two months after completion of construction, but not to exceed May 31, 2002 (Design Capacity 0.85 MGD)

| <u>Effluent</u> <u>Characteristic</u> | <u>Discharge Limitations</u> | | <u>Monitoring Requirements</u> | |
|--|------------------------------|--------------------|--|------------------------------|
| | <u>Monthly Avg.</u> | <u>Weekly Avg.</u> | <u>Measurement</u> <u>Frequency</u> | <u>Sample</u> <u>Type</u> |
| Flow | Report | Report | Continuous | Recorder |
| BOD ₅ | 30 mg/l | 45 mg/l | 1/week | 3 Hr. Composite |
| TSS | 90 mg/l | 135 mg/l | 1/week | 3 Hr. Composite |
| Fecal Coliform Colonies/100ml | 200 | 400 | 1/week | Grab |
| pH | 6-9 Standard Units | | 1/week | Grab |

During the period beginning two months after completion of construction, but no later than June 1, 2002 and lasting through the expiration date of the permit (Design 0.85 MGD)

| <u>Effluent</u> <u>Characteristic</u> | <u>Discharge Limitations</u> | | <u>Monitoring Requirements</u> | |
|--|------------------------------|--------------------|--|------------------------------|
| | <u>Monthly Avg.</u> | <u>Weekly Avg.</u> | <u>Measurement</u> <u>Frequency</u> | <u>Sample</u> <u>Type</u> |
| Flow | Report | Report | Continuous | Recorder |
| BOD ₅ | 30 mg/l | 45 mg/l | 1/week | 3 Hr. Composite |
| TSS | 30 mg/l | 45 mg/l | 1/week | 3 Hr. Composite |
| Fecal Coliform Colonies/100ml | 200 | 400 | 1/week | Grab |
| pH | 6-9 Standard Units | | 1/week | Grab |

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XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) Inspections

A review of EDMS indicates that an inspection was conducted on or about February 26, 2004 with areas of concern noted. This inspection report was not in EDMS. The latest inspection report found in EDMS is as follows:

Date – August 28, 2001

Findings and/or Violations:

A Routine Compliance Inspection revealed that the system was in good order and appeared to be operating properly. The facility did not have any flow meter calibration records on site. The facility was not keeping a pH log book for their pH meter.

B) Compliance and/or Administrative Orders

A review of EDMS revealed that there are no recent enforcement actions administered against this facility.

C) DMR Review

A review of EDMS revealed DMR's January, 2005 to December, 2006, and April, 2007 to December, 2007. The following violations were noted:

| <u>Effluent Characteristic</u> | <u>Number of Violations</u> |
|------------------------------------|-----------------------------|
| BOD ₅ – (concentration) | 0 |
| BOD ₅ - (mass) | 0 |
| TSS - (concentration) | 1 |
| TSS - (mass) | 0 |
| Dissolved Oxygen | 0 |
| Fecal Coliform | 0 |
| pH | 0 |

NOTE: There were no mass limits set in the effluent limitations from January 1, 2003 until expiration of permit. The Design Capacity for the facility in the previous permit was 0.85 MGD. From the DMR review it was determined that the flow exceeded the design capacity 22 times.

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XII. ADDITIONAL INFORMATION:

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.75 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ gal/lb} \times 0.75 \text{ MGD} \times 30 \text{ mg/l} = 188 \text{ lbs/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.5 and 1.0 MGD.

| <u>Effluent Characteristics</u> | <u>Monitoring Requirements</u> | |
|---------------------------------|--------------------------------|-----------------|
| | <u>Measurement</u> | <u>Sample</u> |
| | <u>Frequency</u> | <u>Type</u> |
| Flow | Continuous | Recorder |
| BOD ₅ | 1/week | 3 Hr. Composite |
| Total Suspended Solids | 1/week | 3 Hr. Composite |
| Fecal Coliform Bacteria | 1/week | Grab |
| pH | 1/week | Grab |

Pollution Prevention Requirements

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. Please make additional copies to be utilized for each year of this permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

| Audit Period Begins | Audit Period Ends | Audit Report Completion Date |
|--------------------------------|---|---|
| Effective Date of Permit | 12 Months from Audit Period Beginning Date | 3 Months from Audit Period Ending Date |

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XIII. TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV. REFERENCES:

Louisiana Water Quality Management Plan, Vol. 10. "Wasteload Allocations and Discharger Inventory", Louisiana Department of Environmental Quality, 1992.

Louisiana Water Quality Management Plan, Vol. 5-B. "Water Quality Inventory", Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards", Louisiana Department of Environmental Quality, 1999.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 23 - "The LPDES Program", Louisiana Department of Environmental Quality, 1999.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Town of Gramercy, Gramercy Wastewater Treatment Facility, March 16, 2007.